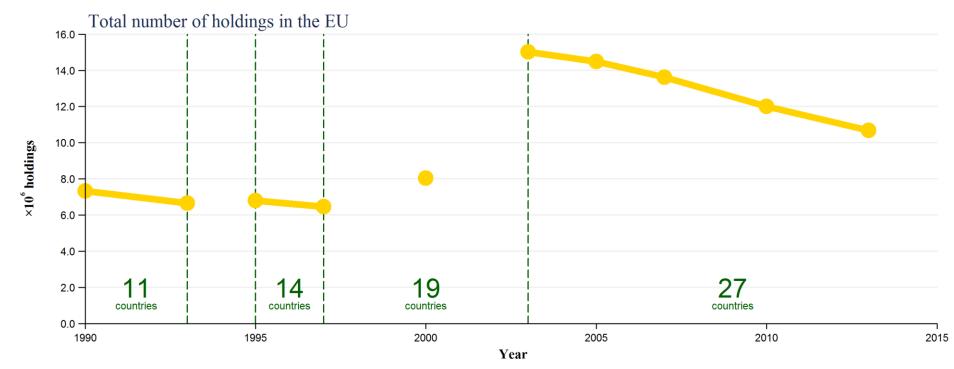


'Concentration': a dual trend

Fewer farms

- 4 340 000 holdings (-29%) over the last decade (2003-2013)



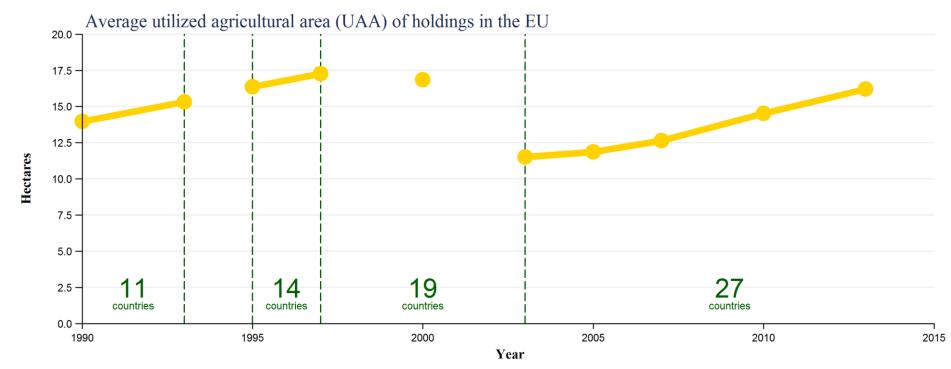
Note: 2013 data are provisional



'Concentration': a dual trend

Larger farms

+ 4.7 ha / holding (+41%) over the last decade (2003-2013)



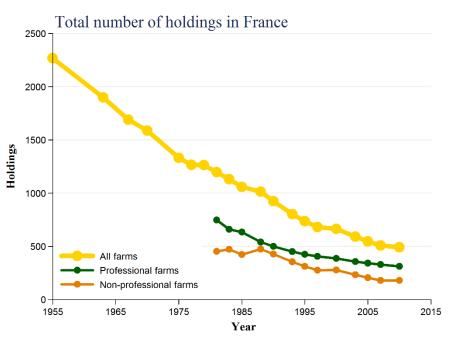
Note: 2013 data are provisional

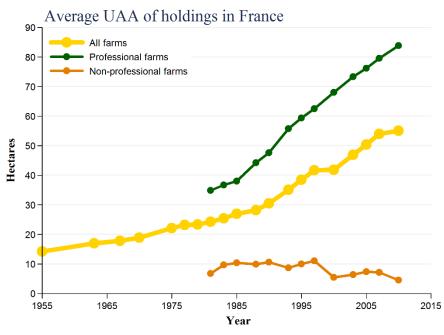


A long-term trend

At least in the 'old member States' (OMS) **Example for France**

- ❖ Farm number: divided by more than 5 between 1955 and 2010
- Farm size: multiplied by almost 4 between 1955 and 2010





Source: : RA-ES 1955-2010 and RICA 1981-2010, MinAgri/SSP - author's own calculations

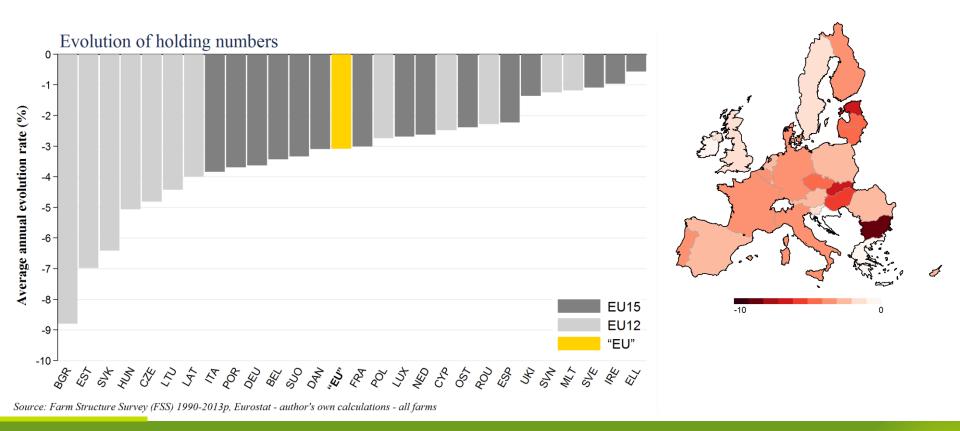
Source: : RA-ES 1955-2010 and RICA 1981-2010, MinAgri/SSP - author's own calculations



A general tendency all over the EU

In terms of farm numbers...

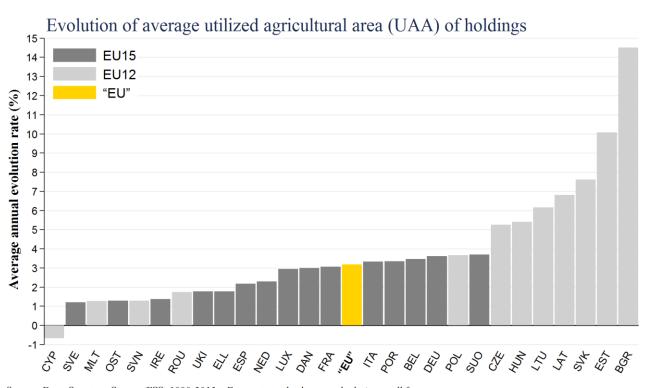
Stronger decrease in the 'new member States' (NMS) on average

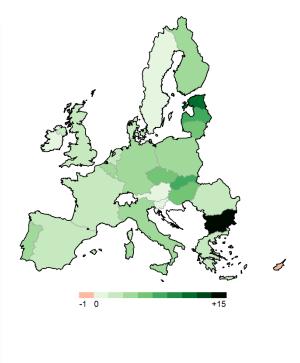




A general tendency all over the EU

- ... as well as farm sizes
- Stronger increase in the NMS on average





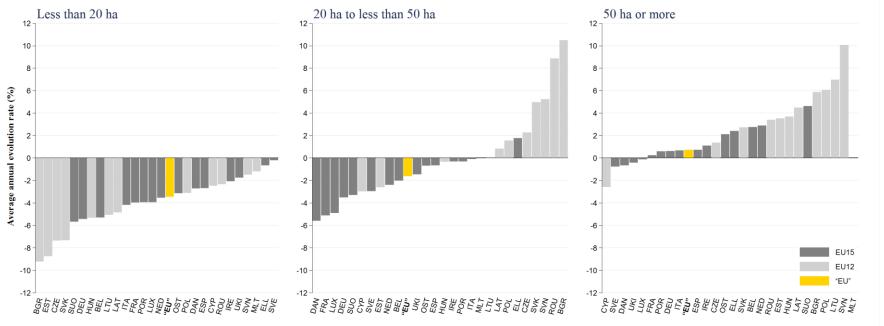


But different trends depending on the initial size

Beyond the average: farm numbers

❖ 20 to < 50 ha: fewer farms in the OMS, more farms in the NMS

Evolution of holding numbers, by size category





But different trends depending on the initial size

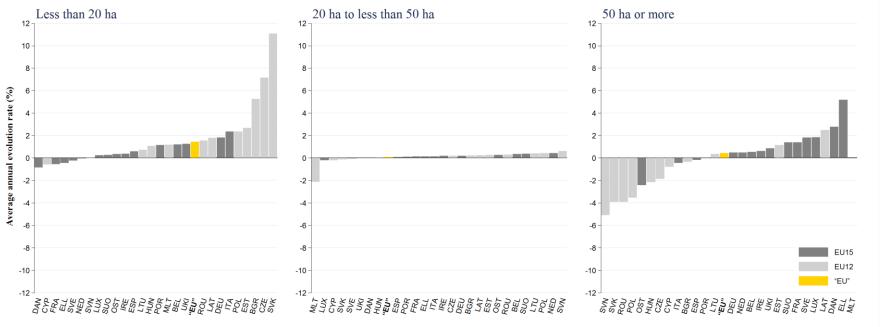
Beyond the average: farm sizes

♦ < 20 ha: larger farms almost everywhere (esp. in the NMS)
</p>

❖ 20 to < 50 ha: slightly larger farms almost everywhere
</p>

♦ ≥ 50 ha: larger farms in the OMS, smaller farms in the NMS

Evolution of average utilized agricultural area (UAA), by size category

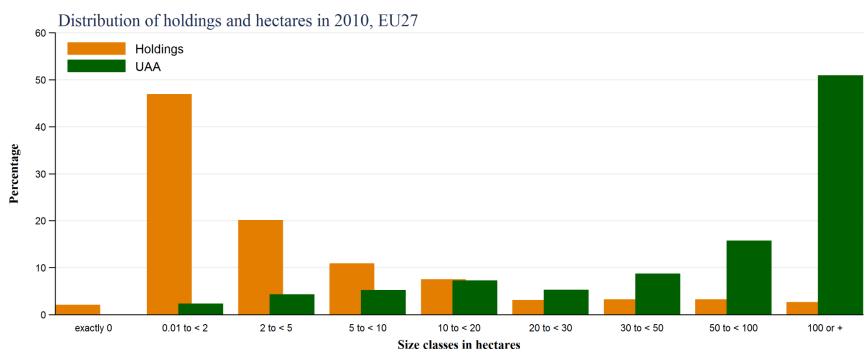


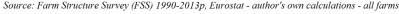


Did 'concentration' mean 'homogenization'?

'Homogenization': a reduction in the 'inequality' of sizes Measuring 'inequality'

- **❖** A number of possible indicators
- Confronting the distribution of farms with that of hectares







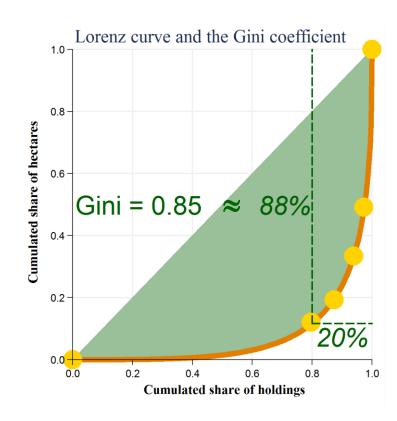
The Gini index: a synthetic measure of inequality

The Lorenz curve and the Gini coefficient

- Cumulated shares of hectares
- Cumulated shares of farms

An example: EU27 in 2010

Size	Holdings			Hectares		
(ha)	x1000	%	Σ%	x1000	%	Σ%
< 10	9 363	80	<i>80</i>	20 994	12	12
10 to < 20	903	8	88	12 663	7	19
20 to < 50	774	7	95	24 518	14	33
50 to < 100	392	3	98	27 451	16	49
≥ 100	325	2	100	88 873	51	100
Total	11 757	100		174 499	100	





Inequality: contrasted situations over the EU

'Moderate' inequality

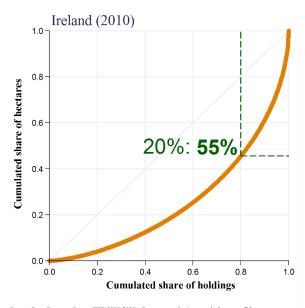
❖ Ireland (2010): 20% of the farms control 55% of the hectares

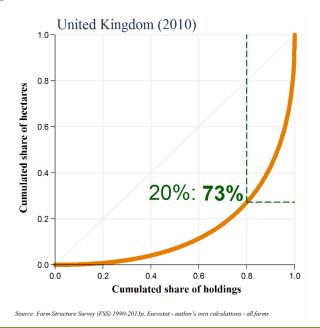
'Average' inequality

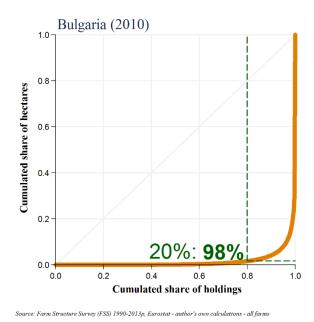
❖ UK (2010):
20% of the farms control 73% of the hectares

'High' inequality

❖ Bulgaria (2010): 20% of the farms control 98% of the hectares



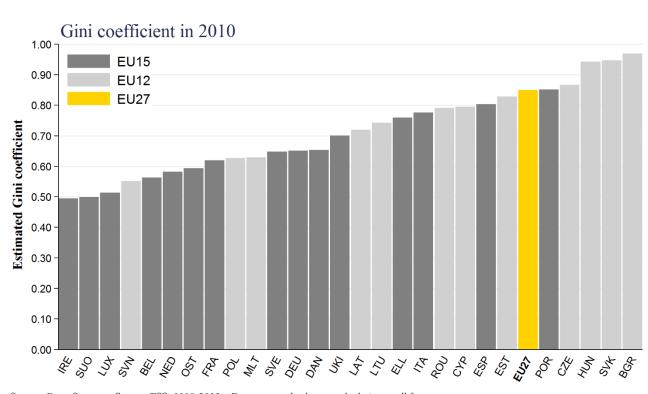


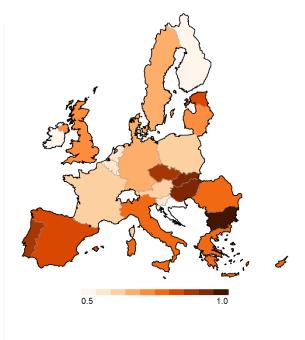


Inequality: contrasted situations over the EU

A higher inequality in the NMS

- ❖ OMS (2010, on average): 20% of the farms control 67%
- ❖ NMS (2010, on average): 20% of the farms control 81%







Inequality did not increase everywhere...

Small decrease

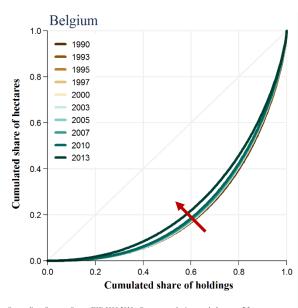
♦ Belgium: 20% of the farms control 60% in 1990 ► 54% in 2013

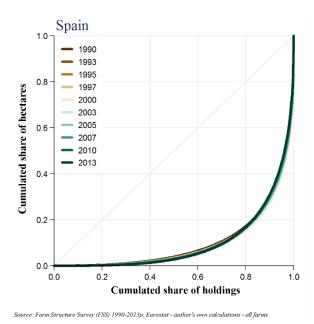
Stagnation

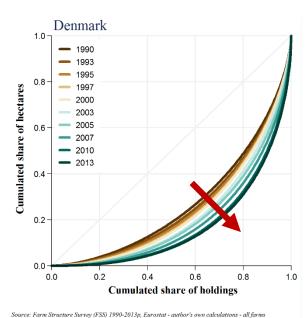
♦ Spain: 20% of the farms control 83% in 1990 ► 83% in 2013

Large increase

♦ Denmark: 20% of the farms control 51% in 1990 ► 69% in 2013



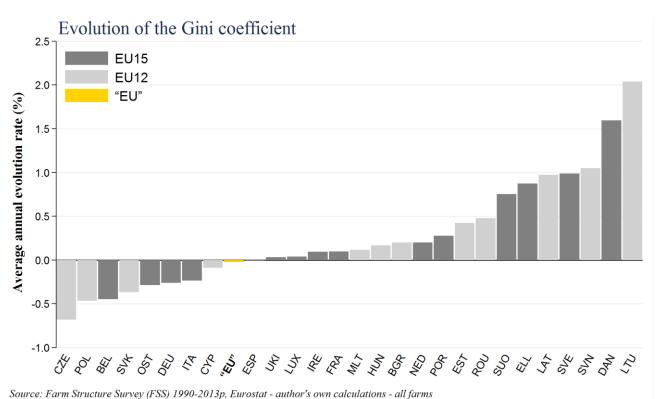


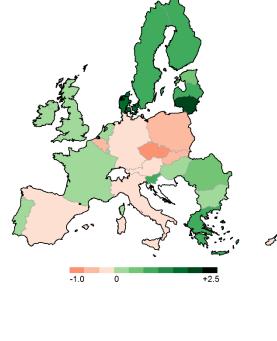


... but inequality increased in most MS

'Homogenization' is not the common rule

- Increase in 19 member States out of 27 (70%)
- No systematic/significant difference between OMS and NMS







What are the drivers of inequality evolution?

A French case-study

- Over 1970-2007, all farms, at the 'département' (NUTS3) level
- **❖** 20% of the farms controlled 52% in 1970 ► 54% in 2007
- Non policy drivers
- Policy drivers

Time trend ('all other drivers')
Price of arable land
Agricultural income per farmer
Initial inequality
Share of agricultural land in total land

Early retirement policy

Milk quotas

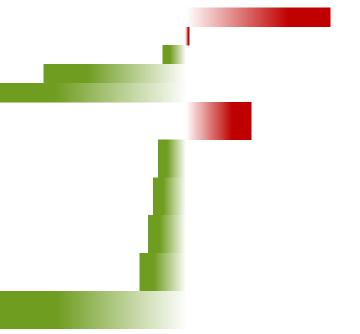
Agro-environment and LFA measures

CAP First pillar direct support

New settlement grants

SAFER's activity





Source: Piet et al. (2012). European Review of Agricultural Economics, Vol. 39(1) pp. 5–28

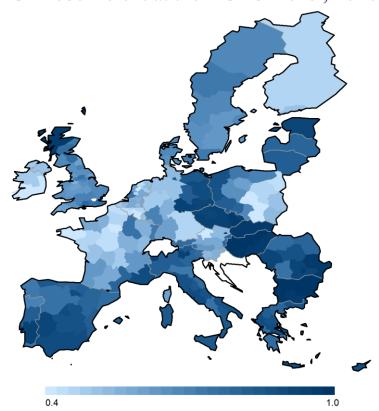


What are the drivers of inequality evolution?

On-going research at the EU level

- Over 1990-2013, all farms, at the NUTS2 level
- Several inequality indicators
 - Gini coefficient
 - Herfindahl-Hirschman index
 - hectare-weighted median
 - etc.
- But (too?) few driver variables in the Eurostat 'regional' database...
 - especially as regards the structure and land related policies

Gini coefficient at the NUTS2 level, 2010





Wrapping-up...

An overall movement towards fewer and larger farms

But 'concentration' did not (always) mean 'homogenization'

Farm structures remain diverse

In some countries, 'inequality' remained fairly stable

For example, we found that, for France:

- (most) public policies played a moderating role
- especially the one aimed at regulating the land market (SAFER)

But do not generalize too fast!

Are such policies (still) relevant/efficient?



